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7	57	concept with (cache or caching) and ("atomic concepts" or "data items" or "atomic concept" or "data item") and (concept\$1 or node\$1) and @ad<20001120	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/10/29 19:32
8	1	("atomic concepts" or "atomic concept") and @ad<20001120	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/10/29 19:33
9	13	manag\$4 same information near5 (chuck\$1 or object\$1) and ("content management" or (content near5 management)) and retriev\$5 and vocabulary and ("data items" or "data item") and node\$1 and @ad<20001120	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/10/29 19:33
10	11	(first near5 ("data structure" or (data near4 structure\$1))) same relationship and (third same node\$1 same ("data structure" or (data near4 structure\$1))) and @ad<20001120	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/10/29 19:33
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13	15	vocabulary with database\$1 and ("data items" "data item") and @ad<20001120	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/10/29 19:34
14	33	"content management" and ("information objects" or "information object" or information near5 chuck\$1) and storage\$1 and retrieval\$1 and @ad<20001120	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/10/29 19:34
15	2	manag\$4 same "content management" same ("information objects" or "information object" or information near5 chuck\$1 or chuck\$1 or object\$1) same storage\$1 same retrieval\$1 and @ad<20001120	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/10/29 19:35
16	46	manag\$4 same content near3 management same ("information objects" or "information object" or information near5 chuck\$1 or chuck\$1 or object\$1) and storage\$1 and retrieval\$1 and @ad<20001120	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/10/29 19:35

17	4	manag\$4 same content near3 management same ("information objects" or "information object" or information near5 chuck\$1 or chuck\$1 or object\$1) same (storage\$1 or table\$1 or database\$1) same retrieval\$1 and @ad<20001120	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/10/29 19:35
18	14	((content with (cache or caching) same concept with (cache or caching) and @ad<20001120) and page\$1) and "data structure"	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/10/29 19:36
19	21	"content management" and node\$1 and concept! and content! and concept! same content! and cach\$3 and @ad<20001120	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/10/29 19:36


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1 [Distributed file systems: concepts and examples](#)

Eliezer Levy, Abraham Silberschatz

December 1990 **ACM Computing Surveys (CSUR)**, Volume 22 Issue 4Full text available: [pdf\(5.33 MB\)](#)
 Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

The purpose of a distributed file system (DFS) is to allow users of physically distributed computers to share data and storage resources by using a common file system. A typical configuration for a DFS is a collection of workstations and mainframes connected by a local area network (LAN). A DFS is implemented as part of the operating system of each of the connected computers. This paper establishes a viewpoint that emphasizes the dispersed structure and decentralization of both data and con ...

2 [Model-driven development of Web applications: the AutoWeb system](#)

Piero Fraternali, Paolo Paolini

October 2000 **ACM Transactions on Information Systems (TOIS)**, Volume 18 Issue 4Full text available: [pdf\(6.94 MB\)](#)
 Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This paper describes a methodology for the development of WWW applications and a tool environment specifically tailored for the methodology. The methodology and the development environment are based upon models and techniques already used in the hypermedia, information systems, and software engineering fields, adapted and blended in an original mix. The foundation of the proposal is the conceptual design of WWW applications, using HDM-lite, a notation for the specification of structure, nav ...

Keywords: HTML, WWW, application, development, intranet, modeling

3 [Fast detection of communication patterns in distributed executions](#)

Thomas Kunz, Michiel F. H. Seuren

November 1997 **Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research**Full text available: [pdf\(4.21 MB\)](#)
 Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)


Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams are often used to obtain a better understanding of the execution of

the application. The visualization tool we use is Poet, an event tracer developed at the University of Waterloo. However, these diagrams are often very complex and do not provide the user with the desired overview of the application. In our experience, such tools display repeated occurrences of non-trivial commun ...

4 [Query evaluation techniques for large databases](#)

Goetz Graefe

June 1993 **ACM Computing Surveys (CSUR)**, Volume 25 Issue 2

Full text available:  [pdf\(9.37 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)


Database management systems will continue to manage large data volumes. Thus, efficient algorithms for accessing and manipulating large sets and sequences will be required to provide acceptable performance. The advent of object-oriented and extensible database systems will not solve this problem. On the contrary, modern data models exacerbate the problem: In order to manipulate large sets of complex objects as efficiently as today's database systems manipulate simple records, query-processi ...

Keywords: complex query evaluation plans, dynamic query evaluation plans, extensible database systems, iterators, object-oriented database systems, operator model of parallelization, parallel algorithms, relational database systems, set-matching algorithms, sort-hash duality

5 [Intelligent database caching through the use of page-answers and page-traces](#)

Nabil Kamel, Roger King

December 1992 **ACM Transactions on Database Systems (TODS)**, Volume 17 Issue 4

Full text available:  [pdf\(3.08 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

In this paper a new method to improve the utilization of main memory systems is presented. The new method is based on prestoring in main memory a number of query answers, each evaluated out of a single memory page. To this end, the ideas of page-answers and page-traces are formally described and their properties analyzed. The query model used here allows for selection, projection, join, recursive queries as well as arbitrary combinations. We also show how to apply the approach under update ...

Keywords: artificial intelligence, databases, page access

6 [Practical safety in flexible access control models](#)

Trent Jaeger, Jonathon E. Tidswell

May 2001 **ACM Transactions on Information and System Security (TISSEC)**, Volume 4 Issue 2

Full text available:  [pdf\(346.47 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Assurance that an access control configuration will not result in the leakage of a right to an unauthorized principal, called *safety*, is fundamental to ensuring that the most basic of access control policies can be enforced. It has been proven that the safety of an access control configuration cannot be decided for a general access control model, such as Lampson's access matrix, so safety is achieved either through the use of limited access control models or the verification of safety via ...

Keywords: Access control models, authorization mechanisms, role-based access control

7 [Computing curricula 2001](#)

September 2001 **Journal on Educational Resources in Computing (JERIC)**


Full text available:  [pdf\(913.53 KB\)](#)
 [html\(2.78 KB\)](#)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

8 [HyperStorM: an extensible object-oriented hypermedia engine](#)

Ajit Bapat, Jürgen Wäsch, Karl Aberer, Jörg M. Haake

March 1996 **Proceedings of the the seventh ACM conference on Hypertext**

Full text available:  [pdf\(1.57 MB\)](#)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

Keywords: database management system support for hypermedia app, hypermedia engine, open extensible hypermedia systems

9 [Advanced data processing in KRISYS: modeling concepts, implementation techniques, and client/server issues](#)

Stefan DeBloch, Theo Härder, Nelson Mattos, Bernhard Mitschang, Joachim Thomas

May 1998 **The VLDB Journal — The International Journal on Very Large Data Bases**,

Volume 7 Issue 2

Full text available:  [pdf\(210.27 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [index terms](#)


The increasing power of modern computers is steadily opening up new application domains for advanced data processing such as engineering and knowledge-based applications. To meet their requirements, concepts for advanced data management have been investigated during the last decade, especially in the field of object orientation. Over the last couple of years, the database group at the University of Kaiserslautern has been developing such an advanced database system, the KRISYS prototype. In this ...

Keywords: Client/server architectures, Consistency control, Object-oriented modeling concepts, Query processing, Run-time optimization

10 [Toward a unified framework for version modeling in engineering databases](#)

Randy H. Katz

December 1990 **ACM Computing Surveys (CSUR)**, Volume 22 Issue 4

Full text available:  [pdf\(3.14 MB\)](#)


Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Support for unusual applications such as computer-aided design data has been of increasing interest to database system architects. In this survey, we concentrate on one aspect of such support, namely, version modeling. By this, we mean the concepts suitable for structuring a database of complex engineering artifacts that evolve across multiple representations and over time and the operations through which such artifact descriptions are created and modified. There have been ...

11 [A model for recentralization of computing: \(distributed processing comes home\)](#)

Harold Lorin

March 1990 **ACM SIGARCH Computer Architecture News**, Volume 18 Issue 1

Full text available:  [pdf\(1.38 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [index terms](#)

Distributed systems commonly contain heterogeneity at all levels of systems structure, differentiated by function (special servers), operating systems and architecture within a single system. On the other hand, large mainframes tend to be more homogeneous in their structures, even when they are multiprocessors. This paper explores a way of using the

models of heterogeneous distributed computing within a mainframe. The argument is that appropriate restructuring of the mainframe can achieve a conv ...

12 Cluster-based scalable network services

Armando Fox, Steven D. Gribble, Yatin Chawathe, Eric A. Brewer, Paul Gauthier
October 1997 **ACM SIGOPS Operating Systems Review , Proceedings of the sixteenth ACM symposium on Operating systems principles**, Volume 31 Issue 5

Full text available:  pdf(2.42 MB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

13 A component and communication model for push systems


Manfred Hauswirth, Mehdi Jazayeri
October 1999 **ACM SIGSOFT Software Engineering Notes , Proceedings of the 7th European software engineering conference held jointly with the 7th ACM SIGSOFT international symposium on Foundations of software engineering**, Volume 24 Issue 6

Full text available:  pdf(1.60 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We present a communication and component model for push systems. Surprisingly, despite the widespread use of many push services on the Internet, no such models exist. Our communication model contrasts push systems with client-server and event-based systems. Our component model provides a basis for comparison and evaluation of different push systems and their design alternatives. We compare several prominent push systems using our component model. The component model consists of producers an ...

14 Scaling up the semantic web: Piazza: data management infrastructure for semantic web applications

Alon Y. Halevy, Zachary G. Ives, Peter Mork, Igor Tatarinov
May 2003 **Proceedings of the twelfth international conference on World Wide Web**

Full text available:  pdf(259.40 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The Semantic Web envisions a World Wide Web in which data is described with rich semantics and applications can pose complex queries. To this point, researchers have defined new languages for specifying meanings for concepts and developed techniques for reasoning about them, using RDF as the data model. To flourish, the Semantic Web needs to be able to accommodate the huge amounts of existing data and the applications operating on them. To achieve this, we are faced with two problems. First, mos ...

Keywords: XML, peer data management systems, semantic web

15 Version models for software configuration management

Reidar Conradi, Bernhard Westfechtel
June 1998 **ACM Computing Surveys (CSUR)**, Volume 30 Issue 2

Full text available:  pdf(483.54 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)


After more than 20 years of research and practice in software configuration management (SCM), constructing consistent configurations of versioned software products still remains a challenge. This article focuses on the version models underlying both commercial systems and research prototypes. It provides an overview and classification of different versioning paradigms and defines and relates fundamental concepts such as revisions, variants, configurations, and changes. In particular, we foc ...

Keywords: changes, configuration rules, configurations, revisions, variants, versions

16 Research session: data warehousing and archive: An adaptive peer-to-peer network for distributed caching of OLAP results

Panos Kalnis, Wee Siong Ng, Beng Chin Ooi, Dimitris Papadias, Kian-Lee Tan

June 2002 **Proceedings of the 2002 ACM SIGMOD international conference on Management of data**

Full text available:  [pdf\(1.37 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Peer-to-Peer (P2P) systems are becoming increasingly popular as they enable users to exchange digital information by participating in complex networks. Such systems are inexpensive, easy to use, highly scalable and do not require central administration. Despite their advantages, however, limited work has been done on employing database systems on top of P2P networks. Here we propose the PeerOLAP architecture for supporting On-Line Analytical Processing queries. A large number low-end clients, eac ...

17 A scalable content-addressable network

Sylvia Ratnasamy, Paul Francis, Mark Handley, Richard Karp, Scott Schenker

August 2001 **ACM SIGCOMM Computer Communication Review , Proceedings of the 2001 conference on Applications, technologies, architectures, and protocols for computer communications**, Volume 31 Issue 4


Full text available:  [pdf\(155.94 KB\)](#)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

18 Design and development of data-intensive web sites: The Araneus approach

Paolo Meriardo, Paolo Atzeni, Giansalvatore Mecca

February 2003 **ACM Transactions on Internet Technology (TOIT)**, Volume 3 Issue 1

Full text available:  [pdf\(2.13 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Data-intensive Web sites are large sites based on a back-end database, with a fairly complex hypertext structure. The paper develops two main contributions: (a) a specific design methodology for data-intensive Web sites, composed of a set of steps and design transformations that lead from a conceptual specification of the domain of interest to the actual implementation of the site; (b) a tool called Homer, conceived to support the site design and implementation process, by allowing the ...

Keywords: Databases, Internet, WWW, World Wide Web, development

19 A survey of Web metrics

Devanshu Dhyani, Wee Keong Ng, Sourav S. Bhowmick

December 2002 **ACM Computing Surveys (CSUR)**, Volume 34 Issue 4

Full text available:  [pdf\(269.26 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The unabated growth and increasing significance of the World Wide Web has resulted in a flurry of research activity to improve its capacity for serving information more effectively. But at the heart of these efforts lie implicit assumptions about "quality" and "usefulness" of Web resources and services. This observation points towards measurements and models that quantify various attributes of web sites. The science of measuring all aspects of information, especially its storage and retrieval or ...

Keywords: Information theoretic, PageRank, Web graph, Web metrics, Web page similarity, quality metrics

20 [A practical framework for demand-driven interprocedural data flow analysis](#)

Evelyn Duesterwald, Rajiv Gupta, Mary Lou Soffa

November 1997 **ACM Transactions on Programming Languages and Systems (TOPLAS)**,
Volume 19 Issue 6Full text available:  [pdf\(412.57 KB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The high cost and growing importance of interprocedural data flow analysis have led to an increased interest in demand-driven algorithms. In this article, we present a general framework for developing demand-driven interprocedural data flow analyzers and report our experience in evaluating the performance of this approach. A demand for data flow information is modeled as a set of queries. The framework includes a generic demand-driven algorithm that determines the response to query by itera ...

Keywords: copy constant propagation, data flow analysis, def-use chains, demand-driven algorithms, distributive data flow frameworks, interprocedural data flow analysis, program optimizations

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- 1 [Design of an OPAC database to permit different subject searching accesses in a multi-disciplines universities library catalogue database](#)

Maristella Agosti, Maurizio Masotti

 June 1992 **Proceedings of the 15th annual international ACM SIGIR conference on Research and development in information retrieval**

 Full text available: [pdf\(877.95 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This paper presents searching approaches and user interface capabilities of DUO, an Online Public Access Catalogue (OPAC) designed to permit the users of three Universities of the Northeast of Italy different subject searching accesses to the co-operative multi-disciplines library catalogue database. The co-operative catalogue database is managed by one of the software systems developed under the italian national project for library automation: the SBN project. Since the SBN data ...

- 2 [Spoken dialogue technology: enabling the conversational user interface](#)

 March 2002 **ACM Computing Surveys (CSUR)**, Volume 34 Issue 1

 Full text available: [pdf\(987.69 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Spoken dialogue systems allow users to interact with computer-based applications such as databases and expert systems by using natural spoken language. The origins of spoken dialogue systems can be traced back to Artificial Intelligence research in the 1950s concerned with developing conversational interfaces. However, it is only within the last decade or so, with major advances in speech technology, that large-scale working systems have been developed and, in some cases, introduced into commerc ...

Keywords: Dialogue management, human computer interaction, language generation, language understanding, speech recognition, speech synthesis

- 3 [SPIDER: a multiuser information retrieval system for semistructured and dynamic data](#)

Peter Schäuble

 July 1993 **Proceedings of the 16th annual international ACM SIGIR conference on Research and development in information retrieval**

 Full text available: [pdf\(972.78 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)


The access structure, the retrieval model, and the system architecture of the SPIDER information retrieval system are described. The access structure provides efficient weighted

retrieval on dynamic data collections. It is based on signatures and non-inverted item descriptions. The signatures provide upper bounds for the exact retrieval status values such that only a small number of exact retrieval status values have to be computed. SPIDER's retrieval model is a probabilistic retrieval mode ...

4 Developing a natural language interface to complex data

Gary G. Hendrix, Earl D. Sacerdoti, Daniel Sagalowicz, Jonathan Slocum

June 1978 **ACM Transactions on Database Systems (TODS)**, Volume 3 Issue 2

Full text available:  [pdf\(3.13 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)


Aspects of an intelligent interface that provides natural language access to a large body of data distributed over a computer network are described. The overall system architecture is presented, showing how a user is buffered from the actual database management systems (DBMSs) by three layers of insulating components. These layers operate in series to convert natural language queries into calls to DBMSs at remote sites. Attention is then focused on the first of the insulating components, th ...

Keywords: database access, human engineering, intelligent interface, natural language, run-time personalization, semantic grammar

5 Transportable natural language processing through simplicity—the PRE system

Samuel S. Epstein

April 1985 **ACM Transactions on Information Systems (TOIS)**, Volume 3 Issue 2

Full text available:  [pdf\(1.15 MB\)](#)


Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

PRE (Purposefully Restricted English) is a restricted English database query language whose implementation has addressed engineering goals, namely, habitability, interapplication transportability, performance, and use with a reliable database management system that supports large numbers of concurrent users and large databases. Habitability has not been demonstrated, but initial indications are encouraging. The other goals have clearly been achieved. The existence of the PRE system demonstr ...

6 ASK is transportable in half a dozen ways

Bozena H. Thompson, Frederick B. Thompson

April 1985 **ACM Transactions on Information Systems (TOIS)**, Volume 3 Issue 2

Full text available:  [pdf\(1.30 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

This paper is a discussion of the technical issues and solutions encountered in making the ASK System transportable. A natural language system can be "transportable" in a number of ways. Although transportability to a new domain is most prominent, other ways are also important if the system is to have viability in the commercial marketplace. On the one hand, transporting a system to a new domain may start with the system prior to adding any domain of knowledge and ext ...

7 Unifying heterogeneous information models

Narinder Singh

May 1998 **Communications of the ACM**, Volume 41 Issue 5

Full text available:  [pdf\(335.15 KB\)](#)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#), [review](#)

8 Scalable association-based text classification

Dimitris Meretakis, Dimitris Fragoudis, Hongjun Lu, Spiros Likothanassis

November 2000 **Proceedings of the ninth international conference on Information and knowledge management**

Full text available:  [pdf\(149.74 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

Keywords: machine learning and IR, statistical/probabilistic models, text categorization, text data mining

9 The human factors of natural language query systems

William C. Ogden

March 1985 **Proceedings of the 1985 ACM thirteenth annual conference on Computer Science**


Full text available:  [pdf\(232.29 KB\)](#) Additional Information: [full citation](#), [abstract](#), [index terms](#)

Understanding the hidden limitations and constraints of the system is the largest potential problem for users of natural language query (NLQ). By their nature, most NLQ systems hide "how it works" because they are intended for users who do not want to know. However, human factors research indicates that when users do not have a good understanding of a system, the behavior of the system becomes unpredictable. For example, consider the two natural language questions: "Which ...

10 Inverted files versus signature files for text indexing

Justin Zobel, Alistair Moffat, Kotagiri Ramamohanarao

December 1998 **ACM Transactions on Database Systems (TODS)**, Volume 23 Issue 4

Full text available:  [pdf\(243.62 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)


Two well-known indexing methods are inverted files and signature files. We have undertaken a detailed comparison of these two approaches in the context of text indexing, paying particular attention to query evaluation speed and space requirements. We have examined their relative performance using both experimentation and a refined approach to modeling of signature files, and demonstrate that inverted files are distinctly superior to signature files. Not only can inverted files be used to ev ...

Keywords: indexing, inverted files, performance, signature files, text databases, text indexing

11 DSS design: a systemic view of decision support

Gad Ariav, Michael J. Ginzberg

October 1985 **Communications of the ACM**, Volume 28 Issue 10

Full text available:  [pdf\(897.21 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

A systemic view of DSS can provide a concrete framework for effective design of DSS and can also serve as a basis for accumulating DSS research results.

12 A methodology for the automatic construction of a hypertext for information retrieval

Maristella Agosti, Fabio Crestani


March 1993 **Proceedings of the 1993 ACM/SIGAPP symposium on Applied computing: states of the art and practice**

Full text available:  [pdf\(961.03 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#), [review](#)

13 The Berkeley FrameNet Project

Collin F. Baker, Charles J. Fillmore, John B. Lowe
August 1998

Full text available:  [pdf\(460.85 KB\)](#)

 [Publisher Site](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

FrameNet is a three-year NSF-supported project in corpus-based computational lexicography, now in its second year (NSF IRI-9618838, "Tools for Lexicon Building"). The project's key features are (a) a commitment to corpus evidence for semantic and syntactic generalizations, and (b) the representation of the valences of its target words (mostly nouns, adjectives, and verbs) in which the semantic portion makes use of frame semantics. The resulting database will contain (a) descriptions of the seman ...

14 Multimedia: Towards a multimedia formatting vocabulary

Jacco van Osssenbruggen, Lynda Hardma, Joost Geurts, Lloyd Rutledge
May 2003 **Proceedings of the twelfth international conference on World Wide Web**

Full text available:  [pdf\(189.77 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Time-based, media-centric Web presentations can be described declaratively in the XML world through the development of languages such as SMIL. It is difficult, however, to fully integrate them in a complete document transformation processing chain. In order to achieve the desired processing of data-driven, time-based, media-centric presentations, the text-flow based formatting vocabularies used by style languages such as XSL, CSS and DSSSL need to be extended. The paper presents a selection of u ...

Keywords: Cuypers, document transformation, formatting objects, hyper-media, multimedia

15 Retrieving highly dynamic widely distributed information

M. F. Wyle, h. P. Frei
May 1989 **ACM SIGIR Forum , Proceedings of the 12th annual international ACM SIGIR conference on Research and development in information retrieval**, Volume 23 Issue 1-2

Full text available:  [pdf\(924.90 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Wide area networks provide a variety of information sources which can be exploited only by appropriate information retrieval techniques such as repeated automatic query of remote databases and bulletin boards. Distinctive features of the content and access methods of information on wide area nets are discussed from an IR perspective. The development, algorithms, and analysis of a functioning system are also presented.

16 Digital libraries for spatial data: The ADEPT digital library architecture

Greg Janée, James Frew
July 2002 **Proceedings of the second ACM/IEEE-CS joint conference on Digital libraries**

Full text available:  [pdf\(263.61 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The Alexandria Digital Earth ProtoType (ADEPT) architecture is a framework for building distributed digital libraries of georeferenced information. An ADEPT system comprises one or more autonomous libraries, each of which provides a uniform interface to one or more collections, each of which manages metadata for one or more items. The primary standard on which the architecture is based is the ADEPT bucket framework, which defines uniform


client-level metadata query services that are compatible w ...

Keywords: bucket framework, collection discovery, distribution, interoperability, metadata

17 [Optimal signature extraction and information loss](#)

Christos Faloutsos, Stavros Christodoulakis

September 1987 **ACM Transactions on Database Systems (TODS)**, Volume 12 Issue 3

Full text available:  [pdf\(1.98 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Signature files seem to be a promising access method for text and attributes. According to this method, the documents (or records) are stored sequentially in one file ("text file"), while abstractions of the documents ("signatures") are stored sequentially in another file ("signature file"). In order to resolve a query, the signature file is scanned first, and many nonqualifying documents are immediately rejected. We develop a framework that includes primary key hashing, multiattribute hash ...

18 [Supporting general queries in an object management system](#)

Xuequn Wu

April 1992 **Proceedings of the 1992 ACM/SIGAPP Symposium on Applied computing: technological challenges of the 1990's**

Full text available:  [pdf\(508.38 KB\)](#)

Additional Information: [full citation](#), [references](#), [index terms](#)

19 [Adapting a full-text information retrieval system to the computer troubleshooting domain](#)

Peter G. Anick

August 1994 **Proceedings of the 17th annual international ACM SIGIR conference on Research and development in information retrieval**

Full text available:  [pdf\(917.08 KB\)](#)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

20 [Data management issues in electronic commerce: An active functionality service for e-business applications](#)

M. Cilia, A. P. Buchmann

March 2002 **ACM SIGMOD Record**, Volume 31 Issue 1

Full text available:  [pdf\(531.51 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#)

Service based architectures are a powerful approach to meet the fast evolution of business rules and the corresponding software. An active functionality service that detects events and involves the appropriate business rules is a critical component of such a service-based middleware architecture. In this paper we present an active functionality service that is capable of detecting events in heterogeneous environments, it uses an integral ontology-based approach for the semantic interpretation of ...

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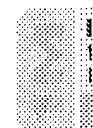
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